

RAW SEQUENCE LISTING DATE: 05/30/2000
 PATENT APPLICATION: US/09/079,678A TIME: 21:32:35

Input Set : A:\Pto.amc
 Output Set: N:\CRF3\05262000\I079678A.raw

```

C--> 5 (1) GENERAL INFORMATION:
      7 (i) APPLICANT: Alvarez, Vernon L.
      8 O'Mahony, Daniel J.
      9 Lambkin, Imelda J.
     10 Singleton, Judith
     11 Patterson, Catherine A.
     12 Cagney, Gerard M.
     13 Belinka, Benjamin A.
     14 Carter, John M.
C--> 16 (ii) TITLE OF INVENTION: RANDOM PEPTIDES THAT BIND TO GASTRO-
     17 INTESTINAL TRACT (GIT) TRANSPORT RECEPTORS AND RELATED METHODS
     20 (iii) NUMBER OF SEQUENCES: 407
     22 (iv) CORRESPONDENCE ADDRESS:
     23 (A) ADDRESSEE: Pennie & Edmonds LLP
     24 (B) STREET: 1155 Avenue of the Americas
     25 (C) CITY: New York
     26 (D) STATE: New York
     27 (E) COUNTRY: USA
     28 (F) ZIP: 10036
     30 (v) COMPUTER READABLE FORM:
     31 (A) MEDIUM TYPE: Diskette
     32 (B) COMPUTER: IBM Compatible
     33 (C) OPERATING SYSTEM: DOS
     34 (D) SOFTWARE: FastSEQ Version 2.0
C--> 36 (vi) CURRENT APPLICATION DATA:
C--> 37 (A) APPLICATION NUMBER: US/09/079,678A
C--> 38 (B) FILING DATE: 15-May-1998
     39 (C) CLASSIFICATION:
     41 (viii) ATTORNEY/AGENT INFORMATION:
     42 (A) NAME: Misrock, S. Leslie
     43 (B) REGISTRATION NUMBER: 18,872
     44 (C) REFERENCE/DOCKET NUMBER: 1101-220
     46 (ix) TELECOMMUNICATION INFORMATION:
     47 (A) TELEPHONE: 212-790-9090
     48 (B) TELEFAX: 212-869-9741
     49 (C) TELEX: 66141 PENNIE
     52 (2) INFORMATION FOR SEQ ID NO: 1:
     54 (i) SEQUENCE CHARACTERISTICS:
     55 (A) LENGTH: 44 amino acids
     56 (B) TYPE: amino acid
     57 (C) STRANDEDNESS:
     58 (D) TOPOLOGY: unknown
     60 (ii) MOLECULE TYPE: peptide
     62 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     64 Arg Ser Gly Ala Tyr Glu Ser Pro Asp Gly Arg Gly Gly Arg Ser Tyr
     65 1 5 10 15
     66 Val Gly Gly Gly Gly Gly Cys Gly Asn Ile Gly Arg Lys His Asn Leu
  
```

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67          20          25          30
68 Trp Gly Leu Arg Thr Ala Ser Pro Ala Cys Trp Asp
69          35          40
71 (2) INFORMATION FOR SEQ ID NO: 2:
73   (i) SEQUENCE CHARACTERISTICS:
74       (A) LENGTH: 44 amino acids
75       (B) TYPE: amino acid
76       (C) STRANDEDNESS:
77       (D) TOPOLOGY: unknown
79   (ii) MOLECULE TYPE: peptide
81   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:
83 Ser Pro Arg Ser Phe Trp Pro Val Val Ser Arg His Glu Ser Phe Gly
84 1          5          10          15
85 Ile Ser Asn Tyr Leu Gly Cys Gly Tyr Arg Thr Cys Ile Ser Gly Thr
86          20          25          30
87 Met Thr Lys Ser Ser Pro Ile Tyr Pro Arg His Ser
88          35          40
90 (2) INFORMATION FOR SEQ ID NO: 3:
92   (i) SEQUENCE CHARACTERISTICS:
93       (A) LENGTH: 44 amino acids
94       (B) TYPE: amino acid
95       (C) STRANDEDNESS:
96       (D) TOPOLOGY: unknown
98   (ii) MOLECULE TYPE: peptide
100  (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:
102 Ser Ser Ser Ser Asp Trp Gly Gly Val Pro Gly Lys Val Val Arg Glu
103 1          5          10          15
104 Arg Phe Lys Gly Arg Gly Cys Gly Ile Ser Ile Thr Ser Val Leu Thr
105          20          25          30
106 Gly Lys Pro Asn Pro Cys Pro Glu Pro Lys Ala Ala
107          35          40
109 (2) INFORMATION FOR SEQ ID NO: 4:
111   (i) SEQUENCE CHARACTERISTICS:
112       (A) LENGTH: 44 amino acids
113       (B) TYPE: amino acid
114       (C) STRANDEDNESS:
115       (D) TOPOLOGY: unknown
117   (ii) MOLECULE TYPE: peptide
119   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
121 Arg Val Gly Gln Cys Thr Asp Ser Asp Val Arg Arg Pro Trp Ala Arg
122 1          5          10          15
123 Ser Cys Ala His Gln Gly Cys Gly Ala Gly Thr Arg Asn Ser His Gly
124          20          25          30
125 Cys Ile Thr Arg Pro Leu Arg Gln Ala Ser Ala His
126          35          40
128 (2) INFORMATION FOR SEQ ID NO: 5:
130   (i) SEQUENCE CHARACTERISTICS:
131       (A) LENGTH: 39 amino acids
132       (B) TYPE: amino acid

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133          (C) STRANDEDNESS:
134          (D) TOPOLOGY: unknown
136      (ii) MOLECULE TYPE: peptide
138      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
140  Ser His Ser Gly Gly Met Asn Arg Ala Tyr Gly Asp Val Phe Arg Glu
141  1      5      10      15
142  Leu Arg Asp Arg Trp Asn Ala Thr Ser His His Thr Arg Pro Thr Pro
143      20      25      30
144  Gln Leu Pro Arg Gly Pro Asn
145      35
147  (2) INFORMATION FOR SEQ ID NO: 6:
149      (i) SEQUENCE CHARACTERISTICS:
150          (A) LENGTH: 41 amino acids
151          (B) TYPE: amino acid
152          (C) STRANDEDNESS:
153          (D) TOPOLOGY: unknown
155      (ii) MOLECULE TYPE: peptide
157      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
159  Ser Pro Cys Gly Gly Ser Trp Gly Arg Phe Met Gln Gly Gly Leu Phe
160  1      5      10      15
161  Gly Gly Arg Thr Asp Gly Cys Gly Ala His Arg Asn Arg Thr Ser Ala
162      20      25      30
163  Ser Leu Glu Pro Pro Ser Ser Asp Tyr
164      35      40
166  (2) INFORMATION FOR SEQ ID NO: 7:
168      (i) SEQUENCE CHARACTERISTICS:
169          (A) LENGTH: 39 amino acids
170          (B) TYPE: amino acid
171          (C) STRANDEDNESS:
172          (D) TOPOLOGY: unknown
174      (ii) MOLECULE TYPE: peptide
176      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
178  Arg Gly Ala Ala Asp Gln Arg Arg Gly Trp Ser Glu Asn Leu Gly Leu
179  1      5      10      15
180  Pro Arg Val Gly Trp Asp Ala Ile Ala His Asn Ser Tyr Thr Phe Thr
181      20      25      30
182  Ser Arg Arg Pro Arg Pro Pro
183      35
185  (2) INFORMATION FOR SEQ ID NO: 8:
187      (i) SEQUENCE CHARACTERISTICS:
188          (A) LENGTH: 44 amino acids
189          (B) TYPE: amino acid
190          (C) STRANDEDNESS:
191          (D) TOPOLOGY: unknown
193      (ii) MOLECULE TYPE: peptide
195      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
197  Ser Gly Gly Glu Val Ser Ser Trp Gly Arg Val Asn Asp Leu Cys Ala
198  1      5      10      15
199  Arg Val Ser Trp Thr Gly Cys Gly Thr Ala Arg Ser Ala Arg Thr Asp

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200          20          25          30
201 Asn Lys Gly Phe Leu Pro Lys His Ser Ser Leu Arg
202          35          40
204 (2) INFORMATION FOR SEQ ID NO: 9:
206   (i) SEQUENCE CHARACTERISTICS:
207       (A) LENGTH: 44 amino acids
208       (B) TYPE: amino acid
209       (C) STRANDEDNESS:
210       (D) TOPOLOGY: unknown
212   (ii) MOLECULE TYPE: peptide
214   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:
216 Ser Asp Ser Asp Gly Asp His Tyr Gly Leu Arg Gly Gly Val Arg Cys
217 1          5          10          15
218 Ser Leu Arg Asp Arg Gly Cys Gly Leu Ala Leu Ser Thr Val His Ala
219          20          25          30
220 Gly Pro Pro Ser Phe Tyr Pro Lys Leu Ser Ser Pro
221          35          40
223 (2) INFORMATION FOR SEQ ID NO: 10:
225   (i) SEQUENCE CHARACTERISTICS:
226       (A) LENGTH: 39 amino acids
227       (B) TYPE: amino acid
228       (C) STRANDEDNESS:
229       (D) TOPOLOGY: unknown
231   (ii) MOLECULE TYPE: peptide
233   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
235 Arg Ser Leu Gly Asn Tyr Gly Val Thr Gly Thr Val Asp Val Thr Val
236 1          5          10          15
237 Leu Pro Met Pro Gly His Ala Asn His Leu Gly Val Ser Ser Ala Ser
238          20          25          30
239 Ser Ser Asp Pro Pro Arg Arg
240          35
242 (2) INFORMATION FOR SEQ ID NO: 11:
244   (i) SEQUENCE CHARACTERISTICS:
245       (A) LENGTH: 38 amino acids
246       (B) TYPE: amino acid
247       (C) STRANDEDNESS:
248       (D) TOPOLOGY: unknown
250   (ii) MOLECULE TYPE: peptide
252   (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
254 Arg Thr Thr Thr Ala Lys Gly Cys Leu Leu Gly Ser Phe Gly Val Leu
255 1          5          10          15
256 Ser Gly Cys Ser Phe Thr Pro Thr Ser Pro Pro Pro His Leu Gly Tyr
257          20          25          30
258 Pro Pro His Ser Val Asn
259          35
261 (2) INFORMATION FOR SEQ ID NO: 12:
263   (i) SEQUENCE CHARACTERISTICS:
264       (A) LENGTH: 39 amino acids
265       (B) TYPE: amino acid

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266      (C) STRANDEDNESS:
267      (D) TOPOLOGY: unknown
269      (ii) MOLECULE TYPE: peptide
271      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
273  Ser Pro Lys Leu Ser Ser Val Gly Val Met Thr Lys Val Thr Glu Leu
274   1          5          10          15
275  Pro Thr Glu Gly Pro Asn Ala Ile Ser Ile Pro Ile Ser Ala Thr Leu
276          20          25          30
277  Gly Pro Arg Asn Pro Leu Arg
278          35
280 (2) INFORMATION FOR SEQ ID NO: 13:
282      (i) SEQUENCE CHARACTERISTICS:
283          (A) LENGTH: 39 amino acids
284          (B) TYPE: amino acid
285          (C) STRANDEDNESS:
286          (D) TOPOLOGY: unknown
288      (ii) MOLECULE TYPE: peptide
290      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
292  Arg Trp Cys Gly Ala Glu Leu Cys Asn Ser Val Thr Lys Lys Phe Arg
293   1          5          10          15
294  Pro Gly Trp Arg Asp His Ala Asn Pro Ser Thr His His Arg Thr Pro
295          20          25          30
296  Pro Pro Ser Gln Ser Ser Pro
297          35
299 (2) INFORMATION FOR SEQ ID NO: 14:
301      (i) SEQUENCE CHARACTERISTICS:
302          (A) LENGTH: 44 amino acids
303          (B) TYPE: amino acid
304          (C) STRANDEDNESS:
305          (D) TOPOLOGY: unknown
307      (ii) MOLECULE TYPE: peptide
309      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
311  Arg Trp Cys Gly Ala Asp Asp Pro Cys Gly Ala Ser Arg Trp Arg Gly
312   1          5          10          15
313  Gly Asn Ser Leu Phe Gly Cys Gly Leu Arg Cys Ser Ala Ala Gln Ser
314          20          25          30
315  Thr Pro Ser Gly Arg Ile His Ser Thr Ser Thr Ser
316          35          40
318 (2) INFORMATION FOR SEQ ID NO: 15:
320      (i) SEQUENCE CHARACTERISTICS:
321          (A) LENGTH: 39 amino acids
322          (B) TYPE: amino acid
323          (C) STRANDEDNESS:
324          (D) TOPOLOGY: unknown
326      (ii) MOLECULE TYPE: peptide
328      (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
330  Ser Lys Ser Gly Glu Gly Gly Asp Ser Ser Arg Gly Glu Thr Gly Trp
331   1          5          10          15
332  Ala Arg Val Arg Ser His Ala Met Thr Ala Gly Arg Phe Arg Trp Tyr

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Serial Number: 09/079,678A

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PH 11

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: _____
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other _____.
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: _____
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: _____
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: _____
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: _____
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: _____
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as _____
- ☐ Inserted mandatory headings, specifically: _____
- ☐ Corrected an obvious error in the response, specifically: _____
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: _____
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: _____
- ☒ Other: Seq 179 - fixed a.a. for

*Examiner: Th above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form.